TA.XTplusC Texture Analysis Instrument

Stable Micro Systems

The TA.XTplusC is Stable Micro Systems' flagship texture analysis instrument.

The instrument can measure almost any physical product property like gel strength, adhesiveness, fracturability, hardness, and extensibility of cosmetics, foods, adhesives, gels, pharmaceuticals, and many other consumer products.
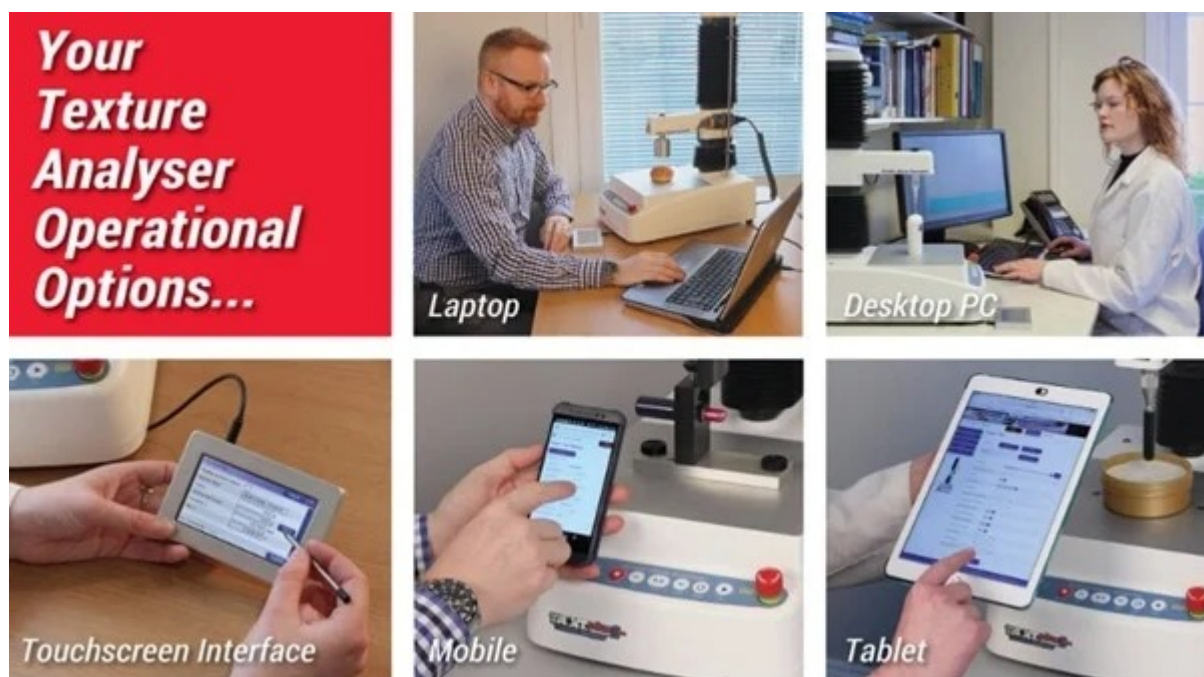
The TA.XTplusC instrument is often used for measuring and quantifying imitative, empirical, and fundamental tests in both tension and compression, spanning those relating to materials characteristics, texture analysis, and also the impacts of the rheology of semi-solids, solids, granulate materials, powders, and viscous liquids.

The analyzer offers a compact and portable solution for users' texture analysis testing measuring up to 50 kg in force. This makes it the instrument of choice for texture analysis professionals. The versatile analyzer — combined with the user-friendly Exponent Connect software — is extremely well engineered to provide precision and reliability over a long term.

All *Connect series* texture analyzers available from Stable Micro Systems can be operated through the regular equipment touchscreen interface, and also through a laptop or desktop

PC. Moreover, the analyzers can be operated from a tablet or mobile phone using the Browser Interface, which is considered a unique operational feature in the realm of texture analysis.

Whether users are experienced or new to texture analysis, or have particular needs, they have the option to select how they want to interact with their instruments. Stable Micro Systems also provides users with many ways to run their instruments. Each method can be used separately from one another, or users can also have a combination.

Stable Micro Systems provides the most universal texture analyzers available at present to fully meet the growing demands, for quantifiable, precise, and repeatable data on the physical or textural property. The analyzers evaluate these properties by capturing time, distance, and force data at extreme speed (2000 points per second or pps). This data is subsequently displayed graphically, by the Exponent Connect software.

Different fixtures and probes are used in the texture analyzer series based on the required test method. Each fixture or probe has been engineered for a certain set of applications, and can be easily and rapidly connected.

Samples are either held between a pair of fixtures or placed on the instrument's base or on the lower fixture. During a simple test, the texture analyzer's arm, comprising the loadcell, moves down to compress or penetrate the product, and subsequently returns to its original position while determining forces in either direction.

Features of the TA.XTplusC Texture Analyzer

- Speed range of 0.01–40 mm/second
- Capacity of 50 kg·f (500 N)
- Maximum data rate of 2000 pps
- Portable
- Fully programmable tests
- Complete test library
- Single column texture analyzer for universal use, with interchangeable load cells
- The most advanced data analysis options
- Extended height-version option
- Can be expanded for the collection of data from other devices

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Stable Micro Systems designs, manufactures and supports high quality texture analysis, volume, density, physical property and powder characterization equipment.

Stable Micro systems are focused on high quality engineering and innovative design.

Products Include:

- Texture Analyzers
- Powder Flow Analyzers
- Materials Testers
- D/R Dough Inflation Systems
- Volscan Profiler
- Automated Linear Indexing System
- Probes and Fixtures
- Temperature Control